

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trad mark Offic

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
08/819,669	03/17/97	BOON		T	LUD-5253.5-D
Γ		HM11/0317	٦	EXAMINER	
NORMAN D HANSON		10111170017		CUNNINGHAM, T	
FELFE & LYNCH 805 THIRD AVENUE				ART UNIT	PAPER NUMBER
NEW YORK NY 10022				1644	
•				DATE MAILED:	03/17/98

Please find below and/or attached an Office communication concerning this application or pr ceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 08/819,669

Applicant(s)

Group Art Unit

Examiner

Thomas Cunningham

oup Art Unit 1644

Boon et al.

X Responsive to communication(s) filed on <u>Dec 9, 1997</u>	·
☐ This action is FINAL .	
☐ Since this application is in condition for allowance except for in accordance with the practice under <i>Ex parte Quayle</i> , 1935	
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure t application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	to respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s) 177 and 178	is/are withdrawn from consideration.
Claim(s)	
Claim(s)	
☐ Claims	
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing	g Review, PTO-948.
☐ The drawing(s) filed on is/are object	ed to by the Examiner.
☐ The proposed drawing correction, filed on	is □approved □disapproved.
\square The specification is objected to by the Examiner.	
$\hfill\Box$ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority u	under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	the priority documents have been
☐ received.	
received in Application No. (Series Code/Serial Num	nber)
\square received in this national stage application from the	International Bureau (PCT Rule 17.2(a)).
	·································
Acknowledgement is made of a claim for domestic priority	y under 35 U.S.C. § 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No	o(s)
☐ Interview Summary, PTO-413	
□ Notice of Draftsperson's Patent Drawing Review, PTO-94	8
☐ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON T	HE FOLLOWING PAGES

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1. Claims 173-181 are pending.

2. Applicant's election without traverse of Group I, claims 173-177 as directed to the MAGE-1

tumor rejection antigen precursor encoded by SEQ ID NO: 8 in Paper No. 8 is acknowledged.

Applicant has indicated that claims 173 and 174 are generic, that claim 177 is subgeneric and that

claim 175 is drawn to MAGE-1.

New claims 179-181 added by preliminary amendment are directed to compositions of

matter encompassing the isolated tumor rejection antigen precursor of claim 173. These are

considered part of the elected invention and will be examined to the extent that they encompass

MAGE-1 (SEQ ID NO: 8).

Claims 177-178 and the generic and subgeneric claims as they read on nonelected proteins

are withdrawn from consideration.

3. Applicant is required to amend page 1 of the specification to include series numbers, e.g. "07/"

or "08/" before the appropriate application numbers.

4. Documents referred to in the specification have not been considered unless they appear in an

information disclosure statement, form 1449 or have been cited by the Examiner on the PTO-892

form.

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5. Documents incorporated by reference into the specification are presumed not to contain essential subject matter as essential subject matter must be described within the specification itself.

6. Claims 179-181 are rejected under 35 U.S.C. 112, second paragraph as failing to particularly point and distinctly claim the invention.

A. It is unclear what the metes and bounds of the term "composition of matter" are. Is this limited to noncovalently associated ingredients, such as an isolated MAGE-1 antigen and an excipient such as PBS or normal saline? Is this term intended to embrace fusion proteins or protein conjugates comprising the MAGE-1 antigen, e.g. MAGE-1 conjugated to a protein carrier such as KLH or diphtheria toxoid? Is the term "composition of matter" intended to have a different scope or meaning than the term "composition" as conventionally used in biotechnology claim language?

B. It is unclear what the metes and bounds of the term "isolated" are. It is presumed that this encompasses MAGE-1 which is isolated from other antigens or tissue components which it is ordinarily associated, e.g. other tumor cell proteins or products. Does this term also require that the isolated MAGE-1 antigen not be covalently attached to another component, such as a carrier protein or effector component?

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C. In claims like claim 173-175 and 179-181, it is unclear what the metes and bounds of the claimed isolated tumor rejection antigen are. For instance, is the MAGE-1 protein of claim 175 limited to the full-length translate of SEQ ID NO: 8, or does it also encompass fragments encoded by a portion of SEQ ID NO:8? If SEQ ID NO: 8 is genomic DNA, then is the recited MAGE-1 protein limited to amino acid residues encoded by the MAGE-1 exons?

- D. In claim 173 it is unclear whether the term "non tum-antigen" refers to a non-tum (minus) antigen. Is the dash "-" intended to be a superscript minus sign? See e.g. page 3 of the specification which refers to tum antigens. Alternatively, does this hyphenated term refer to any non-tum antigen, whether a tum and tum antigen?
- 7. Claim 176 is rejected under 35 U.S.C. 112, fourth paragraph as failing to further limit the claim 176 indicates that the MAGE-1 antigen may be encoded by a variety of different nucleotide sequences, it is the same MAGE-1 antigen as claimed in claim 175. The MAGE-1 antigen to which both these claims are directed is the same antigen whether encoded by the nucleotide sequence of SEQ ID NO:8 or by a different, yet redundant nucleotide sequence which encodes the same amino acids forming the MAGE-1 polypeptide.

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8. Claim 181 is rejected under 35 U.S.C. 112, fourth paragraph as failing to further limit the ingredients of the claimed composition. The recited components of the composition of matter of claim 181 are no different than those recited by claim 179 from which it depends.

9. The following documents contain 100% matching sequences to SEQ ID NO:8.

WO 94/23031-A published 13-Oct-1994, Boon-Falleur et al. (Not prior art)

WO92/20356-A, published 26-Nov-1992, Boon et al. (Not prior art)

WO95/20974-A, published 10-Aug-1995. Boon-Falluer et al. (Not prior art)

U.S. patent 5,541,104, published 30-Jul-1996, filed 01-Feb-1994. Chen et al. (Not prior art)

Science 254:1643-1647, published 13-Dec-1991. Van der Bruggen et al. (Not prior art)

10. A comparison of instant SEQ ID NO: 8 and the MAGE-1 amino acid sequence set forth in Fig. 6B of U.S. patent appears to indicate that the two sequences are identical. Therefore, for the purposes of determining both priority and prior art issues it is assumed that the MAGE-1 amino acid sequence disclosed by each claimed priority document is the same as the amino acid sequence of MAGE set forth by SEQ ID NO: 8. If any originally disclosed MAGE-1 amino acid sequence has been modified or corrected the Applicant is requested to notify the Examiner of the correction and date the correction was made.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Cunningham, Ph.D, J.D. whose telephone number is (703) 308-3968. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

HOMAS M. CUMNINGHAM PRIMARY EXAMINER GROUP 1800